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PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORIT	Y			
To:]	PCT	
FBRice & Co			ICI	
Level 23	•			
44 Market Street		WRI	TTEN OPINION OF THE	
SYDNEY NSW 2000		INTERNATIONAL SEARCHING AUTHORITY		
			(DCD D 1 401 to 1)	
·	!		(PCT Rule 43bis.1)	
		Date of mailing	4.7	
Applicant's or agent's file reference		(day/month/year)	1 7 JUN 2005	
122242		FOR FURTHER ACT	ION See paragraph 2 below	
International application No.	International filing date	(day/month/war)		
PCT/AU2005/000487	4 April 2005	(way/month/year)	Priority date (day/month/year) 2 April 2004	
International Patent Classification (IPC) or b		ation and IPC	2 April 2004	
Int. Cl. 7 H04L 9/32, 9/30, 12/58, 12/	66	On and n C		
Applicant		· ·		
COLLA, Gregory Alan et al			•	
			•	
1. This opinion contains indications relating	ng to the following its			
Box No. I Basis of the opinion	18 to the following ite	·		
			÷	
		novelty, inventive step a	nd industrial applicability	
Box No. IV Lack of unity of inve	ntion	•		
X Box No. V Reasoned statement u	inder Rule 43bis.1(a)(i)	with regard to novelty, is	nventive step or industrial applicability;	
Box No. VI Certain documents ci	tions supporting such st	atement		
		 n		
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application				
Oortain observations	on the international appl	lication	1	
2 EVIDOVED A CONTRACT	•		·	
2. FURTHER ACTION				
	ied the International Ru		red to be a written opinion of the International ant chooses an Authority other than this one to b) that written opinions of this International	
g tunionly will not be so consider	icu.		:	
If this opinion is, as provided above, consider written reply together, where appropriate, where appropriate, where appropriate of 22 PCT/ISA/220 or before the expiration of 22	viui amendments, before	e the expiration of 3 mon	the from the data of mailing of	
For further options, see Form PCT/ISA/220), .	ny daic, willenever expire	es later.	
			·	
3. For further details, see notes to Form PCT/ISA	1/220			
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Name and mailing address of the IPEA/AU		Authorized Officer	06401	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA		DODEDT DADED		
E-mail address: pct@ipaustralia.gov.au		ROBERT BARTR		
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10/594986 IAP2 Rec'd PCT/PTO 29 SEP 2006 International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. I Basis of the opinion	PCT/AU2005/000487
 With regard to the language, this opinion has been established on the which it was filed, unless otherwise indicated under this item. 	e basis of the international application in the language in
This opinion has been established on the basis of a translation fre the following language, which is the language international search (under Rules 12.3 and 23.1(b)).	rom the original language into of a translation furnished for the purposes of
 With regard to any nucleotide and/or amino acid sequence disclose claimed invention, this opinion has been established on the basis of: 	d in the international application and necessary to the
a type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer	readable form.
furnished subsequently to this Authority for the purposes of	
filed or furnished, the required statements that the information in in the application as filed or does not go beyond the application at Additional comments:	as filed, as appropriate, were furnished.
·	

Form PCT/ISA/237 (Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2005/000487

Box No. V	Reasoned statement us applicability; citations	nder Rule 43 <i>bis</i> .1(a)(i) with regard and explanations supporting sucl	d to novelty, inventive step or industrial
l. Statement			
Nov	velty (N)	Claims 1 to 66	YES
		Claims	NO
Inve	entive step (IS)	Claims	YES
•		Claims 1 to 66	NO
Indu	istrial applicability (IA)	Claims 1 to 66	YES
		Claims	NO

Citations and explanations:

- D1) Herbert A, "End-to-End security over the internet: Deliverable D1 Implementation Architecture",
- D2) WO 2000/045539
- D3) Chihara et al, "PGP-Based security enhanced mail gateway (SEMAIL) with POP Authentication for large scale organizations"
- D4) WO 2001/008377
- D5) US 5943426
- D6) JP 11-196080

Novelty:

All of the claims are considered to be novel because none of the documents listed disclose all of the features defined in any of the claims. In particular providing a key container by a key container directory, the key container to be used to secure a message that will be sent from a sender to a recipient, wherein a request for a key container is received from the requestor, a key container is provided to the requestor that contains a cryptographic key of a gateway that the message will transit and an address of the sender or the recipient.

Inventive Step:

The novel feature indicated above is the key container directory. In the Claims the terminology "key container" is interpreted to be the data sent that contains the encryption key. It may also contain other data but merely calling this a key container does not provide any other functional meaning than the data transmitted includes the key. D1 discloses end to end security over the internet and specifically at page 47 part 7.1 discloses a secure mail gateway that provides signing and signature verification driven by the senders name and encryption of confidential messages. D1 does not explicitly disclose the use of a key container directory. Directories for encryption keys are well known in the art of secure data communication systems and an example of this can be found in D6. To implement a simple directory as a means to look up a key to use is considered part of the common general knowledge of the art and as such to implement such an alternative to that disclosed in D1 is considered to be no more than a minor workshop improvement that would be implemented without invention. As a result the independent claims are all considered to be lacking an inventive step. The features added by the dependent claims all appear to be minor variations to the concept defined in the independent claims and as such these claims are all considered to be either disclosed or part of the common general knowledge in the art. For example remote directories, determining the type of key container, determining the domain, parameters to determine key use, and the use of time dependent keys are all well known options in secure communications that would be implemented without invention to D1.

Cont. on supplemental sheet.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2005/000487

Box No. VIII	Certain observations on the international	application
20211011111	certain observations on the international	аррисаноп

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. Based on the disclosure of your priority documents I was not able to locate any reference to the features introduced in claims 31 to 33 and 66, the time dependent conditions on the key, claim 35, 39, 52, 56, and 59, the parameter that indicates the key container use, or claim 42 and 62 security preferences of the gateway. As such these claims appear to introduce features that are not fully supported by the disclosure of the priority documents.

Form PCT/ISA/237 (Box No. VIII) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International Application No.

PCT/AU2005/000487

Sup	pl	eme	ntai	Box
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In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2

D2 discloses all of the feature you have defined in all of your claims except for the fact that it is directed towards IP telephony. The CTAs function equivalently to your disclosed gateways and a remote gateway controller is clearly disclosed. D2 is in the field of secure communications and a person skilled in the art of secure communication systems would have considered it relevant, ascertained and understood it. Furthermore the obvious combination of D2 with D1 is considered to disclose all of the features you have defined in all of your claims 1 to 66 rendering your claimed invention as not inventive.